

DT09 Rec'd PCT/PTO 09 SEP 2004

CLAIMS

1. A SEWING MACHINE HAVING A MICROPROCESSOR CONTROLLED SWITCH AND A MANUAL MOTOR SPEED CONTROLLER PROVIDED INDEPENDENTLY ON THE MACHINE BODY, THE SEWING MACHINE BEING PROVIDED WITH A BATTERY POWERED RADIO TRANSMITTER TO OPERATE THE SWITCH REMOTELY AND AN ASSOCIATED RECEIVER ON THE BODY OF THE MACHINE, THE TRANSMITTER USING DIGITALLY CODED SIGNALS TO AVOID INTERFERENCE WITH OTHER REMOTELY CONTROLLED SEWING MACHINES IN THE VICINITY, THE TRANSMITTER HAVING A SINGLE CRYSTAL OR SAW DEVICE OSCILLATOR AND A MICROPROCESSOR WHICH GENERATES A PSEUDO-RANDOMLY SPACED DATA STREAM, THE TRANSMITTER OPERATING WITH AMPLITUDE MODULATION, THE SWITCH BEING CONTROLLED SO AS TO STOP THE MACHINE IF THE STREAM OF DATA IS INTERRUPTED, THE TRANSMITTER HAVING A STRAP FOR ATTACHMENT TO AN OPERATOR, THE STRAP INCORPORATING A WIRE TO HELP WITH THE PROPAGATION OF THE TRANSMITTED SIGNAL, THE TRANSMITTER BEING ADAPTED TO BE PHYSICALLY CONNECTED TO A BOX HOUSING THE RECEIVER IN ORDER TO RECHARGE THE TRANSMITTER BATTERY, THE TRANSMITTER BEING DISABLED FROM OPERATING THE SWITCH WHILE ITS BATTERY IS BEING RECHARGED.

2. A SEWING MACHINE AS CLAIMED IN CLAIM 1 IN COMBINATION WITH A SECOND TRANSMITTER SO THAT ONE TRANSMITTER CAN BE USED WHILE THE OTHER IS BEING RECHARGED.

3. A SEWING MACHINE ACCORDING TO CLAIM 1 OR CLAIM 2 IN WHICH A BOX HOUSING THE TRANSMITTER HAS LEDs TO INDICATE OPERATING AND RECHARGING FUNCTIONS AND THE BOX OF THE RECEIVER HAS LEDs TO INDICATE POWER AND OPERATION AND ALSO HAS AN IEC MAINS CONNECTOR.

4. A SEWING MACHINE SUBSTANTIALLY AS HERIN DESCRIBED WITH REFERENCE TO THE DRAWINGS.